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| APPLICATION NO | . I | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------|-----------|-------------|----------------------|-------------------------|------------------|
| 10/724,096 | | 12/01/2003 | Young-Taeg Sul | 1504-1035 | 1393 |
| 466 | 7590 | 06/16/2006 | | EXAMINER | |
| YOUNG | & THOM | PSON | STEWART, ALVIN J | | |
| 745 SOUT | H 23RD ST | TREET | | | |
| 2ND FLOO | OR . | | | ART UNIT | PAPER NUMBER |
| ARLINGT | ON, VA | 22202 | 3738 | | |
| | | | | DATE MAILED: 06/16/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|---|--|--|--|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| Office Action Summary | | 10/724,096 | SUL, YOUNG-TAEG | | | | |
| | | Examiner | Art Unit | | | | |
| | | Alvin J. Stewart | 3738 | | | | |
| Period fo | The MAILING DATE of this communication apport | pears on the cover sheet with the | correspondence address | | | | |
| WHIC - Externafter - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Or period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDON | N. imely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on 20 M | <u>1arch 2006</u> . | | | | | |
| • | This action is FINAL . 2b) This action is non-final. | | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposit | ion of Claims | | | | | | |
| 4)⊠ | Claim(s) <u>1-5,8,9,30 and 33-42</u> is/are pending i | in the application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | |
| 6)⊠ | Claim(s) <u>1-5,8,9,30 and 33-42</u> is/are rejected. | | | | | | |
| - | Claim(s) <u>6,7,10 and 11</u> is/are objected to. | | | | | | |
| 8)□ | Claim(s) are subject to restriction and/o | or election requirement. | | | | | |
| Applicat | ion Papers | | | | | | |
| 9)[| The specification is objected to by the Examine | er. | | | | | |
| 10)⊠ The drawing(s) filed on <u>01 December 2003</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) | The oath or declaration is objected to by the Ex | xaminer. Note the attached Offic | e Action or form PTO-152. | | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| | nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) | 4) ☐ Interview Summa Paper No(s)/Mail | | | | | |
| 3) Infor | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date | | Patent Application (PTO-152) | | | | |

Response to Arguments

Applicant's arguments filed 03/20/06 have been fully considered but they are not persuasive.

The Applicant's representative discloses that the Layrolle reference does not disclose a phosphor ion moiety or a calcium ion moiety. However, the Examiner wants to point out that the claims are referring to the article and not to the method of making the device.

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA1959). "[A]pparatus claims cover what a device *is*, not what a device *does*." *Hewlett-Packard Co. v. Bausch & Lomb Inc.*, 909 F.2d 1464, 1469, 15 USPQ2d 1525,1528 (Fed. Cir. 1990).

Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim. *Ex parte Thibault*, 164 USPQ 666, 667 (Bd. App. 1969).

In order to be given patentable weight, a functional recitation must be supported by recitation in the claim of sufficient structure to warrant the presence of the functional language.

In re Fuller, 1929 C.D. 172; 388 O.G. 279.

Claims are being treated as product by process claims. In accordance with MPEP 2113, these claims are not limited to the manipulations of the recited steps, only the structure implied by the steps.

The Examiner is only searching for a structure capable of having two or more layers of titanium oxide with an additional element on top of a titanium substrate.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-5, 8, 9, 30, 33-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Layrolle et al US Patent 6,207,218 B1.

Layrolle et al discloses a titanium implant comprising a plurality of layers comprising titanium oxide and a group consisting of calcium, phosphor, etc.. The Examiner interpreted the upper porous layer as the layer of titanium oxide and the lower compact barrier as the layer of calcium and phosphorus ions (see col. 2, lines 33-51; and col. 3, lines 24-44).

NOTE: A comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. In re Fessman, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. In re Klug, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. In re Hirao et al., 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976).

Allowable Subject Matter

Claims 6, 7, 10, and 11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J Stewart whose telephone number is 703-305-0277. The examiner can normally be reached on Monday-Friday 7:00AM-5:30PM(1 Friday B-week off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 703-308-2111. The fax phone numbers for

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Art Unit: 3738

the organization where this application or proceeding is assigned are 703-305-3590 for regular

communications and 703-308-2708 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is 703-308-0858.

June 12, 2006.

ALVIN J. STEWART

A. Stud

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